

- JOB NO. 4719 WESTERN SEAFOOD -  
CAPT DUNG 6/95

HER 01701

## FOREMAN'S DAILY TIME REPORT

**DESCRIPTION OF WORK PERFORMED (BY FOREMAN)**

CLASS NO. Archie Dunn

Acas. lost  
bottoms missing  
bottoms of shell  
defect

TOTAL HOURS

[illegible]

HER 01702

INEC \_\_\_\_\_

**CODED  
AND  
EXTENDED**

APPROVED

### FOREMAN'S DAILY TIME REPORT

**DESCRIPTION OF WORK PERFORMED (BY FOREMAN)**

**JOB NO.**

~~4719~~ 4719

DATE \_\_\_\_\_

6/17/95

CLASS NO.

Capt Dung

Sancliff, Bruce

TOTAL HOURS

**BADGE**  
**NO**

NAME \_\_\_\_\_

60	JOE OLIVAREZ
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~~00 JIMMY JACKSON~~

~~SSA JOSE CASAS~~

~~73 RICHARD RODRIGUEZ~~

~~72 PRINT RRRR:GUEZ~~

42 GABRIEL DE LA ROSA

~~229 DANIEL HERNANDEZ~~

70 JUAN RIVERA

~~56 CECILIO DOARTE~~

~~4. SRI PETIT~~

~~SP9 LUCIO NADERA~~

~~SECRET~~

~~TOP SECRET MAJERA~~

45. JUNE GUTZ

4

9.

4

4

4

18

**HER 01703**

**CODED  
AND**

**APPROVED**

### FOREMAN'S DAILY TIME REPORT

TOTAL HOURS

CLASS NO. March 1969

Sandblast  
Zinc coat +  
Primer application  
of coat

**HER 01704**

**APPROVED**

### FOREMAN'S DAILY TIME REPORT

**T  
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T  
E  
S**

DATE 6/15/95

CLASS NO. Uncle Vanya

Scrap box

BADGE NO.	NAME
60 JOE OLIVAREZ	8
00 JIMMY JACKSON	
664 JOSE CASAS	9 4/5
73 RICHARD RODRIGUEZ	
72 TRINO RORDIGUEZ	
49 GABRIEL DE LA ROSA	9 1/8
229 DANIEL HERNANDEZ	8 1/8
70 JUAN RIVERA	5 5
53 CLAUDIO DUARTE	9 4/5
41 SAM PETTIT	
579 LUCIO NAJERA	12 4/8
693 VICTOR GONZALEZ	
684 RUBEN NAJERA	
451 JOSE GOMEZ	60

**CODED**  
**AND**

**APPROVED**

# SANDBLASTING REPORT

HER 01706

JOB NO. 4719

## COATING USAGE LOGS

COMPANY NAME: HERCULES MARINE

NAME OF OPERATOR: JOE CASAS

DATE: 6-17-95

[illegible]

HER 01707

# HERCULES

MARINE SERVICES CORPORATION

P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. :

DATE : 6/21/95

Job No. : 4719

Location : Freeport

TO: WESTERN SEAFOOD COMPANY  
301 W Brazos  
Freeport, Tx., 77541  
  
M/V UNCLE DUNG

PLEASE REMIT PAYMENTS TO:  
11011 RICHMOND  
SUITE 500  
HOUSTON, TX. 77042

Terms : Net ~~30~~ <sup>10</sup>

FOR:

Remove barnicals from botton of boat,  
sandblast and paint with zinc paint

\$3,653.03

Welding ladder, remove and replace zinc bar, misc

486.75

Replace window on boat

651.22

TOTAL

\$4,791.00

HER 01708

PHONE: (409) 233-6371

Strength through Experience, Equipment, Know-How



**GULF COAST GLASS COMPANY**

P.O. Box 2411  
FREEPORT, TEXAS 77541  
(409) 265-1109

SOLD BY		DATE 6-16-95	
NAME Hercules			
ADDRESS		PHONE 233-6371	
CITY			
<input type="checkbox"/> CASH <input type="checkbox"/> CHARGE <input type="checkbox"/> MERCHANDISE RETURNED <input type="checkbox"/> C.O.D. <input type="checkbox"/> PAID OUT <input type="checkbox"/> PAID ON ACCOUNT			
QTY.	DESCRIPTION	PRICE	AMOUNT
1	Solex Safety glass		
2	14" dia		18.00
4	28 x 34	64.00	256.00
4			282.00
5	rubber gasket 44 Ft		110.00
6	Labor		150.00
7			542.00
8			
9			
10			
11			
12			
13			
14			
15			
16			
RECEIVED BY A. E. ...		TOTAL	542.00

**THANK YOU**

3380

HER 01709



TOTAL MATERIALS : 0.00

LABOR HOURS

[illegible]

LABOR HOURS con't

[illegible]

**HER 01711**



Invoice :

Date : 6-21-95

Job no : 4719

Location : FREEPORT

To: Woodrow Senbood

m/v Uncle Duns

~~Remove Brackets from Boat~~

Remove Brackets from Bottom of Boat

Sand Blast & Paint with zinc paint

~~4 Cont of~~

\$3653.03

Welding Ladder, zinc Bar, misc. 486.75

Replace window in <sup>cab</sup>~~boat~~ 651.22

Total \$4,791.00

(504) 395-2621  
U.S.A.

(011) 571-215-1517  
BOGOTA, COLOMBIA

HER 01712

~~Sand Blasting & Prime Zinc Paint 3370.00~~

~~Welding Ring on Ladder 486.75  
Remove 32 Kunt~~

~~Replace Window in cabin 651.22~~

~~\$4,507.97~~

~~\$4,751.00~~

<sup>200-</sup>  
Sand Blasting & Painting 3653.03

Welding Ring on Ladder & Zinc Bon 486.75  
Remove 32 zinc Bon

Replace Window in cabin 651.22

\$4,751.00

651. -

\$4,100.00

T P T 110

M.KE

# HERCULES

MARINE SERVICES CORPORATION

## PURCHASE ORDER

JOB	DATE <u>6/15/95</u>	REQ. NO.
DATE MATERIAL REQ'D.	PREPARED BY <u>By Union</u>	
NOTIFY: <u>Larry</u>	DELIVER TO: <u>Marines</u>	
REQUIRED FOR	<u>Sandblast Capt Deering</u>	
DATE RECEIVED 1.	DATE RECEIVED 2.	DATE RECEIVED 3.

P.M. NO.	<u>4719-90231</u>
VENDOR	<u>Stam Blast</u>
TERMS	<u>30</u>
F.O.B.	<u>Yard</u>
VIA	
SHIP DATE	<u>6/15/95</u>

ITEM	QUANTITY		SHIP NO.	DESCRIPTION -- FULL DETAIL REQUIRED	COST CODE		UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
	ORDERED	RECEIVED									
1	1			load of sand	85	11		\$1405.50			
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											

Pmt by Check  
 1405.50  
 Ch # 1535

RECEIVED BY:	APPROVED BY:	TOTALS	<u>\$1405.50</u>
DATE RECEIVED	APPROVED BY:	BUYER / DATE	

HER 01714

# MARINE AND INDUSTRIAL SPECIALTIES, INC.

10 Ash Street • P.O. Box 831  
Freeport, Texas 77541-0831  
(409) 233-0181

PICKING TICKET  
13347

*Hercules*

ACCOUNT NAME		ACCOUNT NO.		P.O. NO.	
SOLD BY <i>Jared</i>		BUYER <i>Sylvia</i>		CHARGE	CASH <input checked="" type="checkbox"/>
				C.O.D.	DATE <i>6-16-95</i>

	QUANTITY	PART NUMBER	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1.	2	13F12U	Zinc	<del>145.00</del>	290.00
2.	2	7T35	Thinner	9.34	18.68
3.					308.68
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					

*paid  
OK # 0574*

RECEIVED BY: \_\_\_\_\_

DELIVERED BY: \_\_\_\_\_

HER 01715

6/15/95 Scrape barnacles from bottom of boat  
37 hrs @ 31.00 1,147.00

Sandblast Boat 3,500.00

Weld rungs on ladder  
+

Remove 32 Kernels 44.25  
1/2 hr @ ~~31.00~~ 486.75

Replace Windows in Cabin

542.69 + 20% 651.22

Markup

Zinc Paint + Thinner \$308.68



MATERIAL SAFETY DATA SHEET FOR: 061681

ACE SUPPLY, DIVISION OF  
ACE TRANSPORTATION, INC.  
HERCULES YARD USE

SIGMACOVER CM COATING RED

HER 01717

## MATERIAL SAFETY DATA SHEET

FOR COATING, RESINS, AND RELATED MATERIALS

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## SECTION I PREPARATION INFORMATION AND PRODUCT IDENTIFICATION

## \*\* PREPARATION INFORMATION \*\*

PREPARED BY : Jay Folse  
Date of Preparation : 06-15-95  
Manufactured by : SIGMA COATINGS USA B.V.  
1401 DESTREHAN AVENUE, HARVEY, LA

Telephone : SIGMA 504-347-4321  
Emergency : CHEMTREC 1-800-424-9300

## \*\* PRODUCT IDENTIFICATION \*\*

Product Identification : 7456-6195A  
Trade Name : SIGMACOVER CM COATING RED  
Product Use : MAINTENANCE PAINT

HMIS INFORMATION : HEALTH : 2 FLAMMABILITY : 3  
REACTIVITY : 1 PERSONAL PROTECTIVE EQUIPMENT : J  
4 = SEVERE 3 = SERIOUS 2 = MODERATE 1 = SLIGHT

Splash Goggles, Gloves, Synthetic Apron, &amp; Dust and Vapor Respirator

## SECTION II HAZARDOUS INGREDIENTS

REF#	INGREDIENT	CAS NUMBER
PIGMENT RED 170		
02 C.I. 12475		CAS# 2786-76-7
% BY WT: 1.0 - 5.0		

## EXPOSURE LIMIT:

ACGIH (TLV) TWA	10 MG/CUBIC METER AS TOTAL NUISANCE DUST
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	NOT AVAILABLE
OSHA PEL STEL FINAL	NOT AVAILABLE
OSHA PEL CEILING	NOT AVAILABLE
LD50	OVER 10,000 MG/KG - ORAL/RATS
LC50	NOT AVAILABLE
VAPOR PRESSURE	NOT APPLICABLE

## ALUMINUM SILICATE

05	CAS# 1332-58-7
% BY WT: 10 - 30	

## EXPOSURE LIMIT:

ACGIH (TLV) TWA	10 MG/ CUBIC METER
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	NOT AVAILABLE

HER 01718

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 SECTION II HAZARDOUS INGREDIENTS  
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REF#	INGREDIENT	CAS NUMBER
	OSHA PEL STEL FINAL	NOT AVAILABLE
	OSHA PEL CEILING	NOT AVAILABLE
	LD50	NOT AVAILABLE
	LC50	NOT AVAILABLE
	VAPOR PRESSURE	NOT APPLICABLE

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 ISOBUTYL ALCOHOL

08 CAS# 78-83-1  
 % BY WT: 1.0 - 5.0 VAPOR PRESSURE: 8.80 MMHG @ 68F LEL: 1.7

EXPOSURE LIMIT:

ACGIH (TLV) TWA	50 PPM - 150 MG/CUBIC METER
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	50 PPM - 150 MG/CUBIC METER
OSHA PEL STEL FINAL	NOT AVAILABLE
OSHA PEL CEILING	NOT AVAILABLE
LD50	2.46 MG/KG - ORAL/RABBIT
LC50	NOT AVAILABLE
VAPOR PRESSURE	7.1 MM

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 EPOXY RESIN SOLIDS

11  
 % BY WT: 15 - 40

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 XYLENE

12 CAS# 1330-20-7  
 % BY WT: 18.430 VAPOR PRESSURE: 6.70 MMHG @ 68F LEL: 1.0

EXPOSURE LIMIT:

ACGIH (TLV) TWA	100 PPM - 434 MG/CUBIC METER
ACGIH (TLV) STEL	150 PPM - 651 MG/CUBIC METER
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	100 PPM
OSHA PEL STEL FINAL	150 PPM - 655 MG/CUBIC METER
OSHA PEL CEILING	NOT AVAILABLE
LD50	4300 MG/KG - ORAL/RAT
LC50	TC (LOW) = 200 PPM (HUMAN TOXIC EFFECTS)
VAPOR PRESSURE	6.7 MM

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 ETHYL BENZENE

13 CAS# 100-41-4  
 % BY WT: 3.775 VAPOR PRESSURE: 10.00 MMHG @ 68F LEL: 1.0

EXPOSURE LIMIT:

ACGIH (TLV) TWA	100 PPM - 434 MG/CUBIC METER
ACGIH (TLV) STEL	125 PPM - 543 MG/CUBIC METER
ACGIH (TLV) CEILING	NOT AVAILABLE

-----  
SECTION II HAZARDOUS INGREDIENTS  
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REF#	INGREDIENT	CAS NUMBER
	OSHA PEL TWA FINAL	100 PPM - 434 MG/CUBIC METER
	OSHA PEL STEL FINAL	125 PPM - 543 MG/CUBIC METER
	OSHA PEL CEILING	NOT AVAILBLE
	LD50	3500 MG/KG - ORAL/RAT
	LC50	TC (LOW) = 100 PPM/4 HOURS (HUMAN)
	VAPOR PRESSURE	10 MM

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CRYSTALLINE SILICA

14 CAS# 14808-60-7  
% BY WT: 22.284

EXPOSURE LIMIT:

ACGIH (TLV) TWA	0.1 MG/CUBIC METER RESPIRABLE DUST
ACGIH (TLV) STEL	N/A
ACGIH (TLV) CEILING	N/A
OSHA PEL TWA FINAL	0.1 MG/CUBIC METER RESPIRABLE DUST
OSHA PEL STEL FINAL	N/A
OSHA PEL CEILING	N/A
LD50	NOT AVAILABLE
LC50	NOT AVAILABLE
VAPOR PRESSURE	NOT APPLICABLE

OTHER LIMITS:

IARC	POTENTIAL	CARCINOGEN
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\*\*\*\*\*  
This product contains one or more reported carcinogens or suspected carcinogens which are noted for each chemical under "OTHER LIMITS".  
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\*\*\*\*\*  
This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding, or grinding.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- 281.0 F Low- 226.0 F  
Vapor Pressure: 10.00 MMHG @68 F  
Vapor Density: Heavier Than Air  
Evaporation Rate: Slower than Butyl Acetate  
Weight per Gallon: 10.99  
Specific Gravity: 1.32  
% Volatile by Volume: 38.17  
% Volatile by Weight: 24.90  
VOC: 2.736  
Physical State: LIQUID  
Appearance: THICK RED LIQUID  
Odor: WEAK AROMATIC/IRRITATING  
Odor Threshold: NOT AVAILABLE  
pH: NOT APPLICABLE  
Freezing Point: Not Available  
Water Solubility: Not Available  
Coefficient of Water/Oil Distribution: NOT AVAILABLE  
Sensitivity to explosion by impact: NONE  
Sensitivity to explosion by static electricity: MODERATE  
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SECTION IV FIRE AND EXPLOSION HAZARD DATA  
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Flammability Classification: Class 1B DOT: Flammable Liquid  
Lowest Flashpoint TCC: 59.0 F  
Explosion Level: Lower- 1.0 Upper- 7.0  
Auto Ignition Temperature: 800.0  
EXTINGUISHING MEDIA

Use CO2, DRY CHEMICAL, FOAM, or WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARD:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed container may explode when exposed to extreme heat. Do not apply to hot surfaces. Never use welding or cutting torch on or near container (even empty) because product (even residue) may ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable. Based on the presence of components (08,12,13) This liquid and vapor is a dangerous fire hazard and moderate explosion hazard when exposed to heat. or flame. Heavier-than-air vapors can flow along surfaces to distant ignition sources and flash back.

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SECTION V TOXICOLOGICAL PROPERTIES AND FIRST AID MEASURES  
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\*\* ACUTE AND CHRONIC TOXICOLOGICAL PROPERTIES \*\*

Based on the presence of components (08,12,13) this product may cause irritation to the upper respiratory tract.

Based on the presence of components (08) this product is severely irritating to the eyes. Exposure may cause extensive corneal injury.

Based on the presence of components (08) this product may cause skin irritation and drying/defatting or cracking, and dermatitis on repeated or prolonged exposure to the skin.

\*\*\*\*\*

FIRST AID

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EYE CONTACT: Flush with luke warm water for 15 minutes. Seek physician immediately.

SKIN CONTACT: Flush wash with copious amounts of luke warm water. Remove contaminated clothing promptly. Contact a physician immediately.

INHALATION: Remove exposed individual to fresh air. Restore breathing if required. Contact a physician immediately.

INGESTION: Rinse mouth immediately. Give exposed individual 6 to 8 ounces of liquid. (Never give anything by mouth to an unconscious person.) Do NOT induce vomiting unless advised by a physician. Contact a physician immediately.

This product contains CRYSTALLINE SILICA, which is considered a hazard by inhalation. IARC has classified CS as probably carcinogenic for humans (2A) This classification on findings of laboratory animal studies and data from epidemiological studies that were considered limited for carcinogenicity. CS can cause silicosis, a noncancerous lung disease. Crystalline silica has not been classified a carcinogen by NTP or OSHA.

ROUTE OF ENTRY : SKIN CONTACT, SKIN ABSORPTION, EYE CONTACT, INHALATION. Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.

NOTICE - Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

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SECTION VI REACTIVITY DATA  
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STABILITY

This product is stable.

INCOMPATIBILITY (Materials to Avoid)

Based on the presence of components (08,12,13) this product is incompatible with strong oxidizing agents; contact with these materials may cause fire or explosion.

May produce hazardous fumes when heated to decomposition as in welding.

Fumes may contain carbon monoxide, carbon dioxide, and oxides of nitrogen.  
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SECTION VII PREVENTIVE MEASURES  
(SAFE HANDLING & USE / SPILL & LEAK PROCEDURES)  
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HYGIENIC PRACTICES

Wash hands thoroughly before eating and using washroom.

PROTECTIVE EYEWEAR

Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes.

Eyewash stations and safety showers should be readily available in use and handling areas.

Use safety eyewear with perforated sideshields.

RESPIRATORY PROTECTION

In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) air line type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

VENTILATION

Use ventilation as required to control vapor concentrations. Avoid prolonged or repeated breathing of vapors. If exposure exceeds TLV, use a NIOSH-approved respirator to prevent overexposure.

PROTECTIVE GLOVES

Required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Stay upwind and away from spill unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Keep all sources of ignition away. Ventilate area of spill. Use non-sparking tools for cleanup. Cover with inert material to reduce fumes. Keep out of drains, sewers, or waterways. Contact fire authorities. Notify local health and pollution control agencies. Call spill response teams if large spill.

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SECTION VIII SPECIAL PRECAUTIONS  
-----

Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected skin areas with water. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this sheet must be observed.

\*\*\*\*\*

NOTICE - Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

-----  
SECTION IX OTHER REGULATORY INFORMATION  
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\*\*\*\*\*  
CALIFORNIA PROPOSITION 65 INFORMATION  
\*\*\*\*\*

California Proposition 65 requires manufacturers to warn users of the presence of any chemicals which may cause a "significant risk" due to exposure. Based on the ingredients contained in this product and the possibility of the presence of minute amounts of contaminants present in any type of paint product, Sigma Coatings gives the following warnings:

WARNING : This product contains a chemical known to the State of California to cause cancer.

WARNING : This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

\*\*\*\*\*  
CERCLA REPORTING REQUIREMENTS  
\*\*\*\*\*

Based on the presence of components (08,12,13) you may be required under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) to notify the National Response Center of releases of quantities of these chemicals equal to or greater than the Reportable Quantities (RQ's) listed in 40 CFR 302.4. Refer to 40 CFR 302.4 for details on reporting requirements.



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SECTION X Section 313 Toxic Chemicals  
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This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

Chemical	CAS Number	Weight %
XYLENE	1330-20-7	18.430
ETHYL BENZENE	100-41-4	3.775

\*\*\*\*\*  
WHILE THE INFORMATION HERE IS BELIEVED TO BE RELIABLE, NO GUARANTEE IS MADE AS TO ITS ACCURACY OR COMPLETENESS. THE CONDITIONS OF USE, HANDLING, STORAGE, DISPOSAL AND THE SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL. CONSEQUENTLY, ALL RISK INVOLVING THE USE OF THE PRODUCT ARE ASSUMED BY THE USER. WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  
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## MATERIAL SAFETY DATA SHEET

## FOR COATING, RESINS, AND RELATED MATERIALS

\*\*\*\*\*

## SECTION I PREPARATION INFORMATION AND PRODUCT IDENTIFICATION

## \*\* PREPARATION INFORMATION \*\*

PREPARED BY : Jay Folse  
Date of Preparation : 06-15-95  
Manufactured by : SIGMA COATINGS USA B.V.  
1401 DESTREHAN AVENUE, HARVEY, LA

Telephone : SIGMA 504-347-4321  
Emergency : CHEMTREC 1-800-424-9300

## \*\* PRODUCT IDENTIFICATION \*\*

Product Identification : HARDNER CM  
Trade Name : SIGMACOVER CM COATING HAR  
Product Use : MAINTENANCE PAINT

HMIS INFORMATION : HEALTH : 2 FLAMMABILITY : 3  
REACTIVITY : 1 PERSONAL PROTECTIVE EQUIPMENT : J  
4 = SEVERE 3 = SERIOUS 2 = MODERATE 1 = SLIGHT

Splash Goggles, Gloves, Synthetic Apron, & Dust and Vapor Respirator

## SECTION II HAZARDOUS INGREDIENTS

REF#	INGREDIENT	CAS NUMBER
02	ISOBUTYL ALCOHOL	CAS# 78-83-1
% BY WT:	10 - 30	VAPOR PRESSURE: 8.80 MMHG @ 68F LEL: 1.7

## EXPOSURE LIMIT:

ACGIH (TLV) TWA	50 PPM - 150 MG/CUBIC METER
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	50 PPM - 150 MG/CUBIC METER
OSHA PEL STEL FINAL	NOT AVAILABLE
OSHA PEL CEILING	NOT AVAILABLE
LD50	2.46 MG/KG - ORAL/RABBIT
LC50	NOT AVAILABLE
VAPOR PRESSURE	7.1 MM

## BPA/EPH EPOXY RESIN

08 CAS# 25068-38-6  
% BY WT: 10 - 30

## EXPOSURE LIMIT:

ACGIH (TLV) TWA	NOT AVAILABLE
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	NOT AVAILABLE

HER 01726

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SECTION II HAZARDOUS INGREDIENTS  
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REF#	INGREDIENT	CAS NUMBER
	OSHA PEL STEL FINAL	NOT AVAILABLE
	OSHA PEL CEILING	NOT AVAILABLE
	LD50	5,000 MG/KG - ORAL (RAT)
	LC50	NOT AVAILABLE
	VAPOR PRESSURE	LESS THAN 0.1 MM

-----  
XYLENE

09 CAS# 1330-20-7  
% BY WT: 28.535 VAPOR PRESSURE: 6.70 MMHG @ 68F LEL: 1.0

EXPOSURE LIMIT:

ACGIH (TLV) TWA	100 PPM - 434 MG/CUBIC METER
ACGIH (TLV) STEL	150 PPM - 651 MG/CUBIC METER
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	100 PPM
OSHA PEL STEL FINAL	150 PPM - 655 MG/CUBIC METER
OSHA PEL CEILING	NOT AVAILABLE
LD50	4300 MG/KG - ORAL/RAT
LC50	TC (LOW) = 200 PPM (HUMAN TOXIC EFFECTS)
VAPOR PRESSURE	6.7 MM

-----  
ETHYL BENZENE

10 CAS# 100-41-4  
% BY WT: 5.844 VAPOR PRESSURE: 10.00 MMHG @ 68F LEL: 1.0

EXPOSURE LIMIT:

ACGIH (TLV) TWA	100 PPM - 434 MG/CUBIC METER
ACGIH (TLV) STEL	125 PPM - 543 MG/CUBIC METER
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	100 PPM - 434 MG/CUBIC METER
OSHA PEL STEL FINAL	125 PPM - 543 MG/CUBIC METER
OSHA PEL CEILING	NOT AVAILBLE
LD50	3500 MG/KG - ORAL/RAT
LC50	TC (LOW) = 100 PPM/4 HOURS (HUMAN)
VAPOR PRESSURE	10 MM

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FATTY ACID/POLYAM DIMERS

11 CAS# 68410-23-1  
% BY WT: 10 - 30

EXPOSURE LIMIT:

ACGIH (TLV) TWA	NOT AVAILABLE
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	NOT AVAILABLE
OSHA PEL STEL FINAL	NOT AVAILABLE
OSHA PEL CEILING	NOT AVAILABLE
LD50	OVER 23G/ KG - ORAL/RAT

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SECTION II HAZARDOUS INGREDIENTS

REF# INGREDIENT CAS NUMBER

LC50 NOT AVAILABLE  
VAPOR PRESSURE NOT AVAILABLE

TRIETHYLENETETRAMINE

12

CAS# 112-24-3

% BY WT: 1.0 - 5.0

EXPOSURE LIMIT:

ACGIH (TLV) TWA NOT AVAILABLE  
ACGIH (TLV) STEL NOT AVAILABLE  
ACGIH (TLV) CEILING NOT AVAILABLE  
OSHA PEL TWA FINAL NOT AVAILABLE  
OSHA PEL STEL FINAL NOT AVAILABLE  
OSHA PEL CEILING NOT AVAILABLE  
LD50 4340 MG/ KG - ORAL/RAT  
LC50 NOT AVAILABLE  
VAPOR PRESSURE LESS THAN 0.01 MM

TRIS-2,4,6-(DIMETHYLAMINOMETHYL)PHENOL

13

CAS# 90-72-2

% BY WT: 1.0 - 5.0

EXPOSURE LIMIT:

ACGIH (TLV) TWA NOT ESTABLISHED  
ACGIH (TLV) STEL NOT ESTABLISHED  
ACGIH (TLV) CEILING NOT ESTABLISHED  
OSHA PEL TWA FINAL NOT ESTABLISHED  
OSHA PEL STEL FINAL NOT ESTABLISHED  
OSHA PEL CEILING NOT ESTABLISHED  
LD50 2169 MG/KG - ORAL/RAT  
LC50 NOT ESTABLISHED

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This product contains no NTP, IARC or OSHA carcinogens or suspected carcinogens required to be reported under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, due to their presence in this product at 0.1 % or more by weight.

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SECTION III PHYSICAL DATA  
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Boiling Range: High- 281.0 F Low- 226.0 F  
Vapor Pressure: 10.00 MMHG @68 F  
Vapor Density: Heavier Than Air  
Evaporation Rate: Slower than Butyl Acetate  
Weight per Gallon: 7.67  
Specific Gravity: .92  
% Volatile by Volume: 60.19  
% Volatile by Weight: 55.29  
VOC: 4.243  
Physical State: LIQUID  
Appearance: THICK LIQUID  
Odor: MODERATE/IRRITATING  
Odor Threshold: NOT AVAILABLE  
pH: NOT APPLICABLE  
Freezing Point: Not Available  
Water Solubility: Not Available  
Coefficient of Water/Oil Distribution: NOT AVAILABLE  
Sensitivity to explosion by impact: NONE  
Sensitivity to explosion by static electricity: MODERATE  
-----

SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

Flammability Classification: Class 1B DOT: Flammable Liquid  
Lowest Flashpoint TCC: 59.0 F  
Explosion Level: Lower- 1.0 Upper- 7.0  
Auto Ignition Temperature: 800.0  
EXTINGUISHING MEDIA

Use CO2, DRY CHEMICAL, FOAM, ALCOHOL FOAM, or WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARD:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Vapors may be heavier than air and may travel along the ground before ignition/flashing back to vapor source. Keep welding or cutting equipment away from product.

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed container may explode when exposed to extreme heat. Do not apply to hot surfaces. Never use welding or cutting torch on or near container (even empty) because product (even residue) may ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable. Based on the presence of components (02,09,10) This liquid and vapor is

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a dangerous fire hazard and moderate explosion hazard when exposed to heat. or flame. Heavier-than-air vapors can flow along surfaces to distant ignition sources and flash back.

-----  
SECTION V TOXICOLOGICAL PROPERTIES AND FIRST AID MEASURES  
-----

**\*\* ACUTE AND CHRONIC TOXICOLOGICAL PROPERTIES \*\***

Based on the presence of components (13) this product can irritate and damage all body tissue it contacts and can cause allergic sensitization. Based on the presence of components (02,09,10,12) this product may cause irritation to the upper respiratory tract.

Based on the presence of components (02,11) this product is severely irritating to the eyes. Exposure may cause extensive corneal injury.

Based on the presence of components (13) contact with the eyes may cause transient corneal damage, conjunctival irritation, and burns if not promptly removed.

Based on the presence of components (12) this product may cause skin irritation.

Based on the presence of components (02,11) this product may cause skin irritation and drying/defatting or cracking, and dermatitis on repeated or prolonged exposure to the skin.

Based on the presence of components (13) this product may cause drying and dermatitis on repeated or prolonged exposure to the skin.

\*\*\*\*\*

**FIRST AID**

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**EYE CONTACT:** Flush with luke warm water for 15 minutes. Seek physician immediately.

**SKIN CONTACT:** Flush wash with copious amounts of luke warm water. Remove contaminated clothing promptly. Contact a physician immediately.

**INHALATION:** Remove exposed individual to fresh air. Restore breathing if required. Contact a physician immediately.

**INGESTION:** Rinse mouth immediately. Give exposed individual 6 to 8 ounces of liquid. (Never give anything by mouth to an unconscious person.) Do NOT induce vomiting unless advised by a physician. Contact a physician immediately.

Based on the presence of components (13) This product is corrosive to the eye, skin, nose and throat.

Based on the presence of components (12,13) eye contact may result in loss of vision with severe burns.

This product, if ingested, may cause irritation to the membranes of the mouth, throat and gastrointestinal tract which the material contacts.

Based on the presence of components (08) This product may cause skin irritation, allergic reaction and sensitization.

**ROUTE OF ENTRY :** SKIN CONTACT, SKIN ABSORPTION, EYE CONTACT, INHALATION. Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.

**NOTICE -** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents

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\*\*\*\*\*  
may be harmful or fatal.

-----  
SECTION VI REACTIVITY DATA  
-----

STABILITY

This product is stable.

HAZARDOUS POLYMERIZATION

Will not occur.

INCOMPATIBILITY (Materials to Avoid)

Based on the presence of components (02,09,10) this product is incompatible with strong oxidizing agents; contact with these materials may cause fire or explosion.

This product can react with strong oxidizing agents, strong Lewis or mineral acids, organic bases and primary and secondary amines.

STABILITY

This product is stable but may decompose at temperatures in excess of 500 degrees Fahrenheit yielding carbon monoxide, aldehydes, acids and other organic substances.

This product is stable but may decompose at elevated temperatures and give off nitrogen oxides, carbon monoxide and other organic compounds

-----  
SECTION VII PREVENTIVE MEASURES  
(SAFE HANDLING & USE / SPILL & LEAK PROCEDURES)  
-----

HYGIENIC PRACTICES

Wash hands thoroughly before eating and using washroom.

PROTECTIVE EYEWEAR

Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes.

Eyewash stations and safety showers should be readily available in use and handling areas.

Use safety eyewear with perforated sideshields.

Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes.

RESPIRATORY PROTECTION

In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) air line type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

VENTILATION

Use ventilation as required to control vapor concentrations. Avoid prolonged or repeated breathing of vapors. If exposure exceeds TLV, use a NIOSH-approved respirator to prevent overexposure.

PROTECTIVE GLOVES

Required for prolonged or repeated contact. Wear resistant gloves such as

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natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Stay upwind and away from spill unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Keep all sources of ignition away. Ventilate area of spill. Use non-sparking tools for cleanup. Cover with inert material to reduce fumes. Keep out of drains, sewers, or waterways. Contact fire authorities. Notify local health and pollution control agencies. Call spill response teams if large spill.

-----  
SECTION VIII SPECIAL PRECAUTIONS  
-----

Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected skin areas with water. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this sheet must be observed.

\*\*\*\*\*

NOTICE - Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

-----  
SECTION IX OTHER REGULATORY INFORMATION  
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CALIFORNIA PROPOSITION 65 INFORMATION

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California Proposition 65 requires manufacturers to warn users of the presence of any chemicals which may cause a "significant risk" due to exposure. Based on the ingredients contained in this product and the possibility of the presence of minute amounts of contaminants present in any type of paint product, Sigma Coatings gives the following warnings:

WARNING : This product contains a chemical known to the State of California to cause cancer.

WARNING : This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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\*\*\*\*\*  
CERCLA REPORTING REQUIREMENTS  
\*\*\*\*\*

Based on the presence of components (02,09,10) you may be required under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) to notify the National Response Center of releases of quantities of these chemicals equal to or greater than the Reportable Quantities (RQ's) listed in 40 CFR 302.4. Refer to 40 CFR 302.4 for details on reporting requirements.

-----  
SECTION X Section 313 Toxic Chemicals  
-----

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

Chemical	CAS Number	Weight %
XYLENE	1330-20-7	28.535
ETHYL BENZENE	100-41-4	5.844

\*\*\*\*\*  
WHILE THE INFORMATION HERE IS BELIEVED TO BE RELIABLE, NO GUARANTEE IS MADE AS TO ITS ACCURACY OR COMPLETENESS. THE CONDITIONS OF USE, HANDLING, STORAGE, DISPOSAL AND THE SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL. CONSEQUENTLY, ALL RISK INVOLVING THE USE OF THE PRODUCT ARE ASSUMED BY THE USER. WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  
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## MATERIAL SAFETY DATA SHEET

FOR COATING, RESINS, AND RELATED MATERIALS

\*\*\*\*\*

## SECTION I PREPARATION INFORMATION AND PRODUCT IDENTIFICATION

## \*\* PREPARATION INFORMATION \*\*

PREPARED BY : Jay Folse  
Date of Preparation : 06-15-95  
Manufactured by : SIGMA COATINGS USA B.V.  
1401 DESTREHAN AVENUE, HARVEY, LA

Telephone : SIGMA 504-347-4321  
Emergency : CHEMTREC 1-800-424-9300

## \*\* PRODUCT IDENTIFICATION \*\*

Product Identification : 7415A  
Trade Name : COLTURIET UNIVERSAL PRIME  
Product Use : MAINTENANCE PAINT

HMIS INFORMATION : HEALTH : 2 FLAMMABILITY : 3  
REACTIVITY : 1 PERSONAL PROTECTIVE EQUIPMENT : J  
4 = SEVERE 3 = SERIOUS 2 = MODERATE 1 = SLIGHT

Splash Goggles, Gloves, Synthetic Apron, &amp; Dust and Vapor Respirator

## SECTION II HAZARDOUS INGREDIENTS

REF#	INGREDIENT	CAS NUMBER
03	TITANIUM DIOXIDE	CAS# 13463-67-7
% BY WT: 5.0 - 10		

## EXPOSURE LIMIT:

ACGIH (TLV) TWA	10 MG/CUBIC METER
ACGIH (TLV) STEL	N/A
ACGIH (TLV) CEILING	N/A
OSHA PEL TWA FINAL	5 MG/CUBIC METER
OSHA PEL STEL FINAL	N/A
OSHA PEL CEILING	N/A
LD50	OVER 10,000 MG/KG - SKIN/RABBITS
LC50	NOT AVAILABLE

## CASTOR OIL DERIVATIVE

09

% BY WT: 1.0 - 5.0

## EXPOSURE LIMIT:

ACGIH (TLV) TWA	10 MG/ CUBIC METER - NUISANCE DUST
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	15 MG/ CUBIC METER - NUISANCE DUST
OSHA PEL STEL FINAL	NOT AVAILABLE

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-----  
SECTION II HAZARDOUS INGREDIENTS  
-----

REF#	INGREDIENT	CAS NUMBER
	OSHA PEL CEILING	NOT AVAILABLE
	LD50	NOT AVAILABLE
	LC50	NOT AVAILABLE
	VAPOR PRESSURE	NOT AVAILABLE

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ISOBUTYL ALCOHOL

12 CAS# 78-83-1  
% BY WT: 1.0 - 5.0 VAPOR PRESSURE: 8.80 MMHG @ 68F LEL: 1.7

EXPOSURE LIMIT:

ACGIH (TLV) TWA	50 PPM - 150 MG/CUBIC METER
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	50 PPM - 150 MG/CUBIC METER
OSHA PEL STEL FINAL	NOT AVAILABLE
OSHA PEL CEILING	NOT AVAILABLE
LD50	2.46 MG/KG - ORAL/RABBIT
LC50	NOT AVAILABLE
VAPOR PRESSURE	7.1 MM

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BPA/EPH EPOXY RESIN

15 CAS# 25068-38-6  
% BY WT: 10 - 30

EXPOSURE LIMIT:

ACGIH (TLV) TWA	NOT AVAILABLE
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	NOT AVAILABLE
OSHA PEL STEL FINAL	NOT AVAILABLE
OSHA PEL CEILING	NOT AVAILABLE
LD50	5,000 MG/KG - ORAL (RAT)
LC50	NOT AVAILABLE
VAPOR PRESSURE	LESS THAN 0.1 MM

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1-METHOXY-2-PROPANOL

16 CAS# 107-98-2  
% BY WT: 1.0 - 5.0 VAPOR PRESSURE: 14.70 MMHG @ 68F LEL: 1.8

EXPOSURE LIMIT:

ACGIH (TLV) TWA	100 PPM
ACGIH (TLV) STEL	150 PPM
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	100 PPM
OSHA PEL STEL FINAL	150 PPM
OSHA PEL CEILING	NOT AVAILABLE
LD50	6,600 MG/KG ORAL/RAT
LC50	OVER 10,000 PPM (4 HOURS)/RAT

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 SECTION II HAZARDOUS INGREDIENTS  
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REF#	INGREDIENT	CAS NUMBER
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IRON OXIDE PIGMENT		
18		CAS# 1309-37-1
% BY WT: 1.0 - 5.0		

EXPOSURE LIMIT:

ACGIH (TLV) TWA	5 MG/CUBIC METER AS IRON
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	10 MG/CUBIC METER
OSHA PEL STEL FINAL	NOT AVAILABLE
OSHA PEL CEILING	NOT AVAILABLE
LD50	OVER 10,000 MG/KG-ORAL/RATS
LC50	NOT AVAILABLE
VAPOR PRESSURE	NOT APPLICABLE

MAGNESIUM SILICATE	
32	CAS# 14807-96-6
% BY WT: 5.0 - 10	

EXPOSURE LIMIT:

ACGIH (TLV) TWA	2 MG/CUBIC METER RESPIRABLE DUST
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	2 MG/CUBIC METER RESPIRABLE DUST
OSHA PEL STEL FINAL	NOT AVAILABLE
OSHA PEL CEILING	NOT AVAILABLE
LD50	NOT AVAILABLE
LC50	NOT AVAILABLE
VAPOR PRESSURE	NOT APPLICABLE

CRYSTALLINE SILICA	
33	CAS# 14808-60-7
% BY WT: 14.933	

EXPOSURE LIMIT:

ACGIH (TLV) TWA	0.1 MG/CUBIC METER RESPIRABLE DUST
ACGIH (TLV) STEL	N/A
ACGIH (TLV) CEILING	N/A
OSHA PEL TWA FINAL	0.1 MG/CUBIC METER RESPIRABLE DUST
OSHA PEL STEL FINAL	N/A
OSHA PEL CEILING	N/A
LD50	NOT AVAILABLE
LC50	NOT AVAILABLE
VAPOR PRESSURE	NOT APPLICABLE

OTHER LIMITS:

IARC	POTENTIAL	CARCINOGEN
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SECTION II HAZARDOUS INGREDIENTS  
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REF#	INGREDIENT	CAS NUMBER
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BARIUM SULFATE

38

CAS# 7727-43-7

% BY WT: 18.733

EXPOSURE LIMIT:

ACGIH (TLV) TWA	10 MG/CUBIC METER
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	5 MG/CUBIC METER
OSHA PEL STEL FINAL	NOT AVAILABLE
OSHA PEL CEILING	NOT AVAILABLE
LD50	NOT AVAILABLE
LC50	NOT AVAILABLE
VAPOR PRESSURE	NOT APPLICABLE

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XYLENE

39

CAS# 1330-20-7

% BY WT: 17.767 VAPOR PRESSURE: 6.70 MMHG @ 68F LEL: 1.0

EXPOSURE LIMIT:

ACGIH (TLV) TWA	100 PPM - 434 MG/CUBIC METER
ACGIH (TLV) STEL	150 PPM - 651 MG/CUBIC METER
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	100 PPM
OSHA PEL STEL FINAL	150 PPM - 655 MG/CUBIC METER
OSHA PEL CEILING	NOT AVAILABLE
LD50	4300 MG/KG - ORAL/RAT
LC50	TC (LOW) = 200 PPM (HUMAN TOXIC EFFECTS)
VAPOR PRESSURE	6.7 MM

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ETHYL BENZENE

40

CAS# 100-41-4

% BY WT: 3.639 VAPOR PRESSURE: 10.00 MMHG @ 68F LEL: 1.0

EXPOSURE LIMIT:

ACGIH (TLV) TWA	100 PPM - 434 MG/CUBIC METER
ACGIH (TLV) STEL	125 PPM - 543 MG/CUBIC METER
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	100 PPM - 434 MG/CUBIC METER
OSHA PEL STEL FINAL	125 PPM - 543 MG/CUBIC METER
OSHA PEL CEILING	NOT AVAILBLE
LD50	3500 MG/KG - ORAL/RAT
LC50	TC (LOW) = 100 PPM/4 HOURS (HUMAN)
VAPOR PRESSURE	10 MM

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Flammability Classification: Class 1B DOT: Flammable Liquid  
Lowest Flashpoint TCC: 59.0 F  
Explosion Level: Lower- 1.0 Upper- 16.0  
Auto Ignition Temperature: 800.0  
EXTINGUISHING MEDIA

Use CO2, DRY CHEMICAL, FOAM, ALCOHOL FOAM, or WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARD:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed container may explode when exposed to extreme heat. Do not apply to hot surfaces. Never use welding or cutting torch on or near container (even empty) because product (even residue) may ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable. Based on the presence of components (12,16,39,40) This liquid and vapor is a dangerous fire hazard and moderate explosion hazard when exposed to heat or flame. Heavier-than-air vapors can flow along surfaces to distant ignition sources and flash back.

-----  
SECTION V TOXICOLOGICAL PROPERTIES AND FIRST AID MEASURES  
-----

\*\* ACUTE AND CHRONIC TOXICOLOGICAL PROPERTIES \*\*

Based on the presence of components (12,16,39,40) this product may cause irritation to the upper respiratory tract.

Based on the presence of components (12,16) this product is severely irritating to the eyes. Exposure may cause extensive corneal injury.

Based on the presence of components (12,16) this product may cause skin irritation and drying/defatting or cracking, and dermatitis on repeated or prolonged exposure to the skin.

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FIRST AID

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EYE CONTACT: Flush with luke warm water for 15 minutes. Seek physician immediately.

SKIN CONTACT: Flush wash with copious amounts of luke warm water. Remove contaminated clothing promptly. Contact a physician immediately.

INHALATION: Remove exposed individual to fresh air. Restore breathing if required. Contact a physician immediately.

INGESTION: Rinse mouth immediately. Give exposed individual 6 to 8 ounces of liquid. (Never give anything by mouth to an unconscious person.) Do NOT induce vomiting unless advised by a physician. Contact a physician immediately.

This product contains CRYSTALLINE SILICA, which is considered a hazard by inhalation. IARC has classified CS as probably carcinogenic for humans (2A) This classification on findings of laboratory animal studies and data from epidemiological studies that were considered limited for carcinogenicity. CS can cause silicosis, a noncancerous lung disease. Crystalline silica has not been classified a carcinogen by NTP or OSHA.

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Based on the presence of components (15) This product may cause skin irritation, allergic reaction and sensitization.

ROUTE OF ENTRY : SKIN CONTACT, SKIN ABSORPTION, EYE CONTACT, INHALATION.  
Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.

NOTICE - Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

-----  
SECTION VI REACTIVITY DATA  
-----

STABILITY

This product is stable.

HAZARDOUS POLYMERIZATION

Will not occur.

INCOMPATIBILITY (Materials to Avoid)

Based on the presence of components (09,12,16,39, this product is incompatible with strong oxidizing agents; contact with these materials may cause fire or explosion.

This product can react with strong oxidizing agents, strong Lewis or mineral acids, organic bases and primary and secondary amines.

STABILITY

This product is stable but may decompose at temperatures in excess of 500 degrees Fahrenheit yielding carbon monoxide, aldehydes, acids and other organic substances.

-----  
SECTION VII PREVENTIVE MEASURES  
(SAFE HANDLING & USE / SPILL & LEAK PROCEDURES)  
-----

HYGIENIC PRACTICES

Wash hands thoroughly before eating and using washroom.

PROTECTIVE EYEWEAR

Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes.

Eyewash stations and safety showers should be readily available in use and handling areas.

Use safety eyewear with perforated sideshields.

Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes.

RESPIRATORY PROTECTION

In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) air line type respirators or hoods. Respiratory protection may also be

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necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

#### VENTILATION

Use ventilation as required to control vapor concentrations. Avoid prolonged or repeated breathing of vapors. If exposure exceeds TLV, use a NIOSH-approved respirator to prevent overexposure.

#### PROTECTIVE GLOVES

Required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact.

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Stay upwind and away from spill unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Keep all sources of ignition away. Ventilate area of spill. Use non-sparking tools for cleanup. Cover with inert material to reduce fumes. Keep out of drains, sewers, or waterways. Contact fire authorities. Notify local health and pollution control agencies. Call spill response teams if large spill.

### SECTION VIII SPECIAL PRECAUTIONS

Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected skin areas with water. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this sheet must be observed.

\*\*\*\*\*

NOTICE - Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

### SECTION IX OTHER REGULATORY INFORMATION

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#### CALIFORNIA PROPOSITION 65 INFORMATION

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California Proposition 65 requires manufacturers to warn users of the presence of any chemicals which may cause a "significant risk" due to exposure. Based on the ingredients contained in this product and the possibility of the presence of minute amounts of contaminants present in any type of paint product, Sigma Coatings gives the following warnings:

WARNING : This product contains a chemical known to the State of California to cause cancer.

WARNING : This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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\*\*\*\*\*  
CERCLA REPORTING REQUIREMENTS  
\*\*\*\*\*

Based on the presence of components (12,39,40) you may be required under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) to notify the National Response Center of releases of quantities of these chemicals equal to or greater than the Reportable Quantities (RQ's) listed in 40 CFR 302.4. Refer to 40 CFR 302.4 for details on reporting requirements.

-----  
SECTION X Section 313 Toxic Chemicals  
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This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

Chemical	CAS Number	Weight %
BARIUM SULFATE	7727-43-7	18.733
XYLENE	1330-20-7	17.767
ETHYL BENZENE	100-41-4	3.639

\*\*\*\*\*  
WHILE THE INFORMATION HERE IS BELIEVED TO BE RELIABLE, NO GUARANTEE IS MADE AS TO ITS ACCURACY OR COMPLETENESS. THE CONDITIONS OF USE, HANDLING, STORAGE, DISPOSAL AND THE SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL. CONSEQUENTLY, ALL RISK INVOLVING THE USE OF THE PRODUCT ARE ASSUMED BY THE USER. WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.  
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## MATERIAL SAFETY DATA SHEET

## FOR COATING, RESINS, AND RELATED MATERIALS

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## SECTION I PREPARATION INFORMATION AND PRODUCT IDENTIFICATION

## \*\* PREPARATION INFORMATION \*\*

PREPARED BY : Jay Folse  
Date of Preparation : 06-15-95  
Manufactured by : SIGMA COATINGS USA B.V.  
1401 DESTREHAN AVENUE, HARVEY, LA

Telephone : SIGMA 504-347-4321  
Emergency : CHEMTREC 1-800-424-9300

## \*\* PRODUCT IDENTIFICATION \*\*

Product Identification : HARDNER CM  
Trade Name : SIGMACOVER CM COATING HAR  
Product Use : MAINTENANCE PAINT

HMIS INFORMATION : HEALTH : 2 FLAMMABILITY : 3  
REACTIVITY : 1 PERSONAL PROTECTIVE EQUIPMENT : J  
4 = SEVERE 3 = SERIOUS 2 = MODERATE 1 = SLIGHT

Splash Goggles, Gloves, Synthetic Apron, &amp; Dust and Vapor Respirator

## SECTION II HAZARDOUS INGREDIENTS

-----  
REF# INGREDIENT CAS NUMBER

## ISOBUTYL ALCOHOL

02

CAS# 78-83-1

% BY WT: 10 - 30 VAPOR PRESSURE: 8.80 MMHG @ 68F LEL: 1.7

## EXPOSURE LIMIT:

ACGIH (TLV) TWA	50 PPM - 150 MG/CUBIC METER
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	50 PPM - 150 MG/CUBIC METER
OSHA PEL STEL FINAL	NOT AVAILABLE
OSHA PEL CEILING	NOT AVAILABLE
LD50	2.46 MG/KG - ORAL/RABBIT
LC50	NOT AVAILABLE
VAPOR PRESSURE	7.1 MM

## BPA/EPH EPOXY RESIN

08

CAS# 25068-38-6

% BY WT: 10 - 30

## EXPOSURE LIMIT:

ACGIH (TLV) TWA	NOT AVAILABLE
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	NOT AVAILABLE

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SECTION II HAZARDOUS INGREDIENTS  
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REF#	INGREDIENT	CAS NUMBER
	OSHA PEL STEL FINAL	NOT AVAILABLE
	OSHA PEL CEILING	NOT AVAILABLE
	LD50	5,000 MG/KG - ORAL (RAT)
	LC50	NOT AVAILABLE
	VAPOR PRESSURE	LESS THAN 0.1 MM

-----  
XYLENE  
09 CAS# 1330-20-7  
% BY WT: 28.535 VAPOR PRESSURE: 6.70 MMHG @ 68F LEL: 1.0

EXPOSURE LIMIT:  
ACGIH (TLV) TWA 100 PPM - 434 MG/CUBIC METER  
ACGIH (TLV) STEL 150 PPM - 651 MG/CUBIC METER  
ACGIH (TLV) CEILING NOT AVAILABLE  
OSHA PEL TWA FINAL 100 PPM  
OSHA PEL STEL FINAL 150 PPM - 655 MG/CUBIC METER  
OSHA PEL CEILING NOT AVAILABLE  
LD50 4300 MG/KG - ORAL/RAT  
LC50 TC (LOW) = 200 PPM (HUMAN TOXIC EFFECTS)  
VAPOR PRESSURE 6.7 MM

-----  
ETHYL BENZENE  
10 CAS# 100-41-4  
% BY WT: 5.844 VAPOR PRESSURE: 10.00 MMHG @ 68F LEL: 1.0

EXPOSURE LIMIT:  
ACGIH (TLV) TWA 100 PPM - 434 MG/CUBIC METER  
ACGIH (TLV) STEL 125 PPM - 543 MG/CUBIC METER  
ACGIH (TLV) CEILING NOT AVAILABLE  
OSHA PEL TWA FINAL 100 PPM - 434 MG/CUBIC METER  
OSHA PEL STEL FINAL 125 PPM - 543 MG/CUBIC METER  
OSHA PEL CEILING NOT AVAILABLE  
LD50 3500 MG/KG - ORAL/RAT  
LC50 TC (LOW) = 100 PPM/4 HOURS (HUMAN)  
VAPOR PRESSURE 10 MM

-----  
FATTY ACID/POLYAM DIMERS  
11 CAS# 68410-23-1  
% BY WT: 10 - 30

EXPOSURE LIMIT:  
ACGIH (TLV) TWA NOT AVAILABLE  
ACGIH (TLV) STEL NOT AVAILABLE  
ACGIH (TLV) CEILING NOT AVAILABLE  
OSHA PEL TWA FINAL NOT AVAILABLE  
OSHA PEL STEL FINAL NOT AVAILABLE  
OSHA PEL CEILING NOT AVAILABLE  
LD50 OVER 23G/ KG - ORAL/RAT

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 SECTION II HAZARDOUS INGREDIENTS  
 -----

REF#	INGREDIENT	CAS NUMBER
	LC50	NOT AVAILABLE
	VAPOR PRESSURE	NOT AVAILABLE

TRIETHYLENETETRAMINE  
 12 CAS# 112-24-3  
 % BY WT: 1.0 - 5.0

EXPOSURE LIMIT:

ACGIH (TLV) TWA	NOT AVAILABLE
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	NOT AVAILABLE
OSHA PEL STEL FINAL	NOT AVAILABLE
OSHA PEL CEILING	NOT AVAILABLE
LD50	4340 MG/ KG - ORAL/RAT
LC50	NOT AVAILABLE
VAPOR PRESSURE	LESS THAN 0.01 MM

TRIS-2,4,6-(DIMETHYLAMINOMETHYL)PHENOL  
 13 CAS# 90-72-2  
 % BY WT: 1.0 - 5.0

EXPOSURE LIMIT:

ACGIH (TLV) TWA	NOT ESTABLISHED
ACGIH (TLV) STEL	NOT ESTABLISHED
ACGIH (TLV) CEILING	NOT ESTABLISHED
OSHA PEL TWA FINAL	NOT ESTABLISHED
OSHA PEL STEL FINAL	NOT ESTABLISHED
OSHA PEL CEILING	NOT ESTABLISHED
LD50	2169 MG/KG - ORAL/RAT
LC50	NOT ESTABLISHED

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SIGMA COATINGS  
HARDNER CM MATERIAL SAFETY DATA SHEET  
SIGMACOVER CM COATING HAR

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This product contains no NTP, IARC or OSHA carcinogens or suspected carcinogens required to be reported under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, due to their presence in this product at 0.1 % or more by weight.

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SECTION III PHYSICAL DATA  
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Boiling Range: High- 281.0 F Low- 226.0 F  
Vapor Pressure: 10.00 MMHG @68 F  
Vapor Density: Heavier Than Air  
Evaporation Rate: Slower than Butyl Acetate  
Weight per Gallon: 7.67  
Specific Gravity: .92  
% Volatile by Volume: 60.19  
% Volatile by Weight: 55.29  
VOC: 4.243  
Physical State: LIQUID  
Appearance: THICK LIQUID  
Odor: MODERATE/IRRITATING  
Odor Threshold: NOT AVAILABLE  
pH: NOT APPLICABLE  
Freezing Point: Not Available  
Water Solubility: Not Available  
Coefficient of Water/Oil Distribution: NOT AVAILABLE  
Sensitivity to explosion by impact: NONE  
Sensitivity to explosion by static electricity: MODERATE  
-----

SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

Flammability Classification: Class 1B DOT: Flammable Liquid  
Lowest Flashpoint TCC: 59.0 F  
Explosion Level: Lower- 1.0 Upper- 7.0  
Auto Ignition Temperature: 800.0  
EXTINGUISHING MEDIA

Use CO2, DRY CHEMICAL, FOAM, ALCOHOL FOAM, or WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARD:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Vapors may be heavier than air and may travel along the ground before ignition/flashing back to vapor source. Keep welding or cutting equipment away from product.

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed container may explode when exposed to extreme heat. Do not apply to hot surfaces. Never use welding or cutting torch on or near container (even empty) because product (even residue) may ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable. Based on the presence of components (02,09,10) This liquid and vapor is

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SIGMA COATINGS  
HARDNER CM MATERIAL SAFETY DATA SHEET  
SIGMACOVER CM COATING HAR

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a dangerous fire hazard and moderate explosion hazard when exposed to heat.  
or flame. Heavier-than-air vapors can flow along surfaces to distant  
ignition sources and flash back.

-----  
SECTION V TOXICOLOGICAL PROPERTIES AND FIRST AID MEASURES  
-----

**\*\* ACUTE AND CHRONIC TOXICOLOGICAL PROPERTIES \*\***

Based on the presence of components (13) this product can irritate  
and damage all body tissue it contacts and can cause allergic sensitization  
Based on the presence of components (02,09,10,12) this product may cause  
irritation to the upper respiratory tract.  
Based on the presence of components (02,11) this product is severely  
irritating to the eyes. Exposure may cause extensive corneal injury.  
Based on the presence of components (13) contact with the eyes  
may cause transient corneal damage, conjunctival irritation, and burns if  
not promptly removed.  
Based on the presence of components (12) this product may cause  
skin irritation.  
Based on the presence of components (02,11) this product may cause  
skin irritation and drying/defatting or cracking, and dermatitis on  
repeated or prolonged exposure to the skin.  
Based on the presence of components (13) this product may cause  
drying and dermatitis on repeated or prolonged exposure to the skin.  
\*\*\*\*\*

**FIRST AID**

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**EYE CONTACT:** Flush with luke warm water for 15 minutes. Seek physician  
immediately.

**SKIN CONTACT:** Flush wash with copious amounts of luke warm water. Remove  
contaminated clothing promptly. Contact a physician immediately.

**INHALATION:** Remove exposed individual to fresh air. Restore breathing  
if required. Contact a physician immediately.

**INGESTION:** Rinse mouth immediately. Give exposed individual 6 to 8 ounces  
of liquid. (Never give anything by mouth to an unconscious person.) Do  
NOT induce vomiting unless advised by a physician. Contact a physician  
immediately.

Based on the presence of components (13) This product is corrosive to  
the eye, skin, nose and throat.

Based on the presence of components (12,13) eye contact may result in  
loss of vision with severe burns.

This product, if ingested, may cause irritation to the membranes of the  
mouth, throat and gastrointestinal tract which the material contacts.

Based on the presence of components (08) This product may cause skin  
irritation, allergic reaction and sensitization.

**ROUTE OF ENTRY :** SKIN CONTACT, SKIN ABSORPTION, EYE CONTACT, INHALATION.  
Excessive inhalation of vapors can cause nasal and respiratory irritation,  
dizziness, weakness, fatigue, nausea, headache, possible unconsciousness,  
and even asphyxiation.

**NOTICE -** Reports have associated repeated and prolonged occupational  
overexposure to solvents with permanent brain and nervous system damage.  
Intentional misuse by deliberately concentrating and inhaling the contents

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SIGMA COATINGS  
HARDNER CM MATERIAL SAFETY DATA SHEET Page 6  
SIGMACOVER CM COATING HAR  
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may be harmful or fatal.

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SECTION VI REACTIVITY DATA  
-----

STABILITY

This product is stable.

HAZARDOUS POLYMERIZATION

Will not occur.

INCOMPATIBILITY (Materials to Avoid)

Based on the presence of components (02,09,10) this product is incompatible with strong oxidizing agents; contact with these materials may cause fire or explosion.

This product can react with strong oxidizing agents, strong Lewis or mineral acids, organic bases and primary and secondary amines.

STABILITY

This product is stable but may decompose at temperatures in excess of 500 degrees Fahrenheit yielding carbon monoxide, aldehydes, acids and other organic substances.

This product is stable but may decompose at elevated temperatures and give off nitrogen oxides, carbon monoxide and other organic compounds

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SECTION VII PREVENTIVE MEASURES  
(SAFE HANDLING & USE / SPILL & LEAK PROCEDURES)  
-----

HYGIENIC PRACTICES

Wash hands thoroughly before eating and using washroom.

PROTECTIVE EYEWEAR

Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes.

Eyewash stations and safety showers should be readily available in use and handling areas.

Use safety eyewear with perforated sideshields.

Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes.

RESPIRATORY PROTECTION

In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) air line type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

VENTILATION

Use ventilation as required to control vapor concentrations. Avoid prolonged or repeated breathing of vapors. If exposure exceeds TLV, use a NIOSH-approved respirator to prevent overexposure.

PROTECTIVE GLOVES

Required for prolonged or repeated contact. Wear resistant gloves such as



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SIGMA COATINGS  
HARDNER CM MATERIAL SAFETY DATA SHEET  
SIGMACOVER CM COATING HAR

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natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Stay upwind and away from spill unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Keep all sources of ignition away. Ventilate area of spill. Use non-sparking tools for cleanup. Cover with inert material to reduce fumes. Keep out of drains, sewers, or waterways. Contact fire authorities. Notify local health and pollution control agencies. Call spill response teams if large spill.

-----  
SECTION VIII SPECIAL PRECAUTIONS  
-----

Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected skin areas with water. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this sheet must be observed.

\*\*\*\*\*

NOTICE - Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

-----  
SECTION IX OTHER REGULATORY INFORMATION  
-----

\*\*\*\*\*

CALIFORNIA PROPOSITION 65 INFORMATION

\*\*\*\*\*

California Proposition 65 requires manufacturers to warn users of the presence of any chemicals which may cause a "significant risk" due to exposure. Based on the ingredients contained in this product and the possibility of the presence of minute amounts of contaminants present in any type of paint product, Sigma Coatings gives the following warnings:

WARNING : This product contains a chemical known to the State of California to cause cancer.

WARNING : This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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SIGMA COATINGS  
HARDNER CM MATERIAL SAFETY DATA SHEET  
SIGMACOVER CM COATING HAR

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\*\*\*\*\*

CERCLA REPORTING REQUIREMENTS

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Based on the presence of components (02,09,10) you may be required under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) to notify the National Response Center of releases of quantities of these chemicals equal to or greater than the Reportable Quantities (RQ's) listed in 40 CFR 302.4. Refer to 40 CFR 302.4 for details on reporting requirements.

-----  
SECTION X Section 313 Toxic Chemicals  
-----

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372):

Chemical	CAS Number	Weight %
XYLENE	1330-20-7	28.535
ETHYL BENZENE	100-41-4	5.844

\*\*\*\*\*

WHILE THE INFORMATION HERE IS BELIEVED TO BE RELIABLE, NO GUARANTEE IS MADE AS TO ITS ACCURACY OR COMPLETENESS. THE CONDITIONS OF USE, HANDLING, STORAGE, DISPOSAL AND THE SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL. CONSEQUENTLY, ALL RISK INVOLVING THE USE OF THE PRODUCT ARE ASSUMED BY THE USER. WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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## MATERIAL SAFETY DATA SHEET

FOR COATING, RESINS, AND RELATED MATERIALS

\*\*\*\*\*

## SECTION I PREPARATION INFORMATION AND PRODUCT IDENTIFICATION

## \*\* PREPARATION INFORMATION \*\*

PREPARED BY : Jay Folse  
Date of Preparation : 06-15-95  
Manufactured by : SIGMA COATINGS USA B.V.  
1401 DESTREHAN AVENUE, HARVEY, LA

Telephone : SIGMA 504-347-4321  
Emergency : CHEMTREC 1-800-424-9300

## \*\* PRODUCT IDENTIFICATION \*\*

Product Identification : 91-92  
Trade Name : THINNER 91-92  
Product Use : PAINT THINNER

HMS INFORMATION : HEALTH : 2 FLAMMABILITY : 3  
REACTIVITY : 1 PERSONAL PROTECTIVE EQUIPMENT : J  
4 = SEVERE 3 = SERIOUS 2 = MODERATE 1 = SLIGHT

Splash Goggles, Gloves, Synthetic Apron, &amp; Dust and Vapor Respirator

## SECTION II HAZARDOUS INGREDIENTS

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REF# INGREDIENT CAS NUMBER

ISOBUTYL ALCOHOL

02

CAS# 78-83-1

% BY WT: 15 - 40 VAPOR PRESSURE: 8.80 MMHG @ 68F LEL: 1.7

## EXPOSURE LIMIT:

ACGIH (TLV) TWA	50 PPM - 150 MG/CUBIC METER
ACGIH (TLV) STEL	NOT AVAILABLE
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	50 PPM - 150 MG/CUBIC METER
OSHA PEL STEL FINAL	NOT AVAILABLE
OSHA PEL CEILING	NOT AVAILABLE
LD50	2.46 MG/KG - ORAL/RABBIT
LC50	NOT AVAILABLE
VAPOR PRESSURE	7.1 MM

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XYLENE

04

CAS# 1330-20-7

% BY WT: 62.221 VAPOR PRESSURE: 6.70 MMHG @ 68F LEL: 1.0

## EXPOSURE LIMIT:

ACGIH (TLV) TWA	100 PPM - 434 MG/CUBIC METER
ACGIH (TLV) STEL	150 PPM - 651 MG/CUBIC METER
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	100 PPM

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SECTION II HAZARDOUS INGREDIENTS  
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REF#	INGREDIENT	CAS NUMBER
	OSHA PEL STEL FINAL	150 PPM - 655 MG/CUBIC METER
	OSHA PEL CEILING	NOT AVAILABLE
	LD50	4300 MG/KG - ORAL/RAT
	LC50	TC (LOW) = 200 PPM (HUMAN TOXIC EFFECTS)
	VAPOR PRESSURE	6.7 MM

-----  
ETHYL BENZENE

05 CAS# 100-41-4  
% BY WT: 12.744 VAPOR PRESSURE: 10.00 MMHG @ 68F LEL: 1.0

EXPOSURE LIMIT:

ACGIH (TLV) TWA	100 PPM - 434 MG/CUBIC METER
ACGIH (TLV) STEL	125 PPM - 543 MG/CUBIC METER
ACGIH (TLV) CEILING	NOT AVAILABLE
OSHA PEL TWA FINAL	100 PPM - 434 MG/CUBIC METER
OSHA PEL STEL FINAL	125 PPM - 543 MG/CUBIC METER
OSHA PEL CEILING	NOT AVAILBLE
LD50	3500 MG/KG - ORAL/RAT
LC50	TC (LOW) = 100 PPM/4 HOURS (HUMAN)
VAPOR PRESSURE	10 MM

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This product contains no NTP, IARC or OSHA carcinogens or suspected carcinogens required to be reported under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, due to their presence in this product at 0.1 % or more by weight.  
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SECTION III PHYSICAL DATA  
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Boiling Range: High- 281.0 F Low- 226.0 F  
Vapor Pressure: 10.00 MMHG @68 F  
Vapor Density: Heavier Than Air  
Evaporation Rate: Slower than Butyl Acetate  
Weight per Gallon: 7.08  
Specific Gravity: .85  
% Volatile by Volume: 99.99  
% Volatile by Weight: 100.00  
VOC: 7.084  
Physical State: LIQUID  
Appearance: THIN LIQUID  
Odor: STRONG ALCOHOL/IRRITATING  
Odor Threshold: NOT AVAILABLE  
pH: NOT APPLICABLE  
Freezing Point: Not Available  
Water Solubiltiy: Not Available  
Coefficient of Water/Oil Distribution: NOT AVAILABLE  
Sensitivity to explosion by impact: NONE  
Sensitivity to explosion by static electricity: MODERATE

-----  
SECTION IV FIRE AND EXPLOSION HAZARD DATA  
-----

Flammability Classification: Class 1B DOT: Flammable Liquid  
Lowest Flashpoint TCC: 59.0 F  
Explosion Level: Lower- 1.0 Upper- 7.0  
Auto Ignition Temperature: 800.0  
EXTINGUISHING MEDIA

Use CO2, DRY CHEMICAL, FOAM, or WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARD:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed container may explode when exposed to extreme heat. Do not apply to hot surfaces. Never use welding or cutting torch on or near container (even empty) because product (even residue) may ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable. Based on the presence of components (02,04,05) This liquid and vapor is a dangerous fire hazard and moderate explosion hazard when exposed to heat. or flame. Heavier-than-air vapors can flow along surfaces to distant ignition sources and flash back.

-----  
SECTION V TOXICOLOGICAL PROPERTIES AND FIRST AID MEASURES  
-----

\*\* ACUTE AND CHRONIC TOXICOLOGICAL PROPERTIES \*\*

Based on the presence of components (02,04,05) this product may cause irritation to the upper respiratory tract.

Based on the presence of components (02) this product is severely irritating to the eyes. Exposure may cause extensive corneal injury.

Based on the presence of components (02) this product may cause skin irritation and drying/defatting or cracking, and dermatitis on repeated or prolonged exposure to the skin.

\*\*\*\*\*

FIRST AID

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EYE CONTACT: Flush with luke warm water for 15 minutes. Seek physician immediately.

SKIN CONTACT: Flush wash with copious amounts of luke warm water. Remove contaminated clothing promptly. Contact a physician immediately.

INHALATION: Remove exposed individual to fresh air. Restore breathing if required. Contact a physician immediately.

INGESTION: Rinse mouth immediately. Give exposed individual 6 to 8 ounces of liquid. (Never give anything by mouth to an unconscious person.) Do NOT induce vomiting unless advised by a physician. Contact a physician immediately.

ROUTE OF ENTRY : SKIN CONTACT, SKIN ABSORPTION, EYE CONTACT, INHALATION. Excessive inhalation of vapors can cause nasal and respiratory irritation,

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SIGMA COATINGS  
91-92 MATERIAL SAFETY DATA SHEET Page 4  
THINNER 91-92

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dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.

NOTICE - Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

-----  
SECTION VI REACTIVITY DATA  
-----

STABILITY

This product is stable.

INCOMPATIBILITY (Materials to Avoid)

Based on the presence of components (02,04,05) this product is incompatible with strong oxidizing agents; contact with these materials may cause fire or explosion.

-----  
SECTION VII PREVENTIVE MEASURES  
(SAFE HANDLING & USE / SPILL & LEAK PROCEDURES)  
-----

HYGIENIC PRACTICES

Wash hands thoroughly before eating and using washroom.  
PROTECTIVE EYEWEAR

Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes.

Eyewash stations and safety showers should be readily available in use and handling areas.

Use safety eyewear with perforated sideshields.

RESPIRATORY PROTECTION

In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) air line type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

VENTILATION

Use ventilation as required to control vapor concentrations. Avoid prolonged or repeated breathing of vapors. If exposure exceeds TLV, use a NIOSH-approved respirator to prevent overexposure.

PROTECTIVE GLOVES

Required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Stay upwind and away from spill unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Keep all sources of ignition away. Ventilate area of spill. Use non-sparking tools for cleanup. Cover with inert material to reduce fumes. Keep out of

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SIGMA COATINGS  
91-92 MATERIAL SAFETY DATA SHEET Page 5  
THINNER 91-92

\*\*\*\*\*  
drains, sewers, or waterways. Contact fire authorities. Notify local health and pollution control agencies. Call spill response teams if large spill.

-----  
SECTION VIII SPECIAL PRECAUTIONS  
-----

Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected skin areas with water. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this sheet must be observed.

\*\*\*\*\*

NOTICE - Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

-----  
SECTION IX OTHER REGULATORY INFORMATION  
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CALIFORNIA PROPOSITION 65 INFORMATION

\*\*\*\*\*

California Proposition 65 requires manufacturers to warn users of the presence of any chemicals which may cause a "significant risk" due to exposure. Based on the ingredients contained in this product and the possibility of the presence of minute amounts of contaminants present in any type of paint product, Sigma Coatings gives the following warnings:

WARNING : This product contains a chemical known to the State of California to cause cancer.

WARNING : This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

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CERCLA REPORTING REQUIREMENTS

\*\*\*\*\*

Based on the presence of components (02,04,05) you may be required under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) to notify the National Response Center of releases of

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SIGMA COATINGS  
91-92 MATERIAL SAFETY DATA SHEET Page 6  
THINNER 91-92

\*\*\*\*\*  
quantities of these chemicals equal to or greater than the Reportable  
Quantities (RQ's) listed in 40 CFR 302.4. Refer to 40 CFR 302.4 for details  
on reporting requirements.

-----  
SECTION X Section 313 Toxic Chemicals  
-----

This product contains the following toxic chemicals subject to the  
reporting requirements of section 313 of the Emergency Planning and  
Community Right-To-Know Act of 1986 (40 CFR 372):

Chemical	CAS Number	Weight %
XYLENE	1330-20-7	62.221
ETHYL BENZENE	100-41-4	12.744

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WHILE THE INFORMATION HERE IS BELIEVED TO BE RELIABLE, NO  
GUARANTEE IS MADE AS TO ITS ACCURACY OR COMPLETENESS. THE  
CONDITIONS OF USE, HANDLING, STORAGE, DISPOSAL AND THE  
SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND  
OUR CONTROL. CONSEQUENTLY, ALL RISK INVOLVING THE USE OF  
THE PRODUCT ARE ASSUMED BY THE USER. WE EXPRESSLY DISCLAIM  
ALL WARRANTIES OF EVERY KIND AND NATURE, EXPRESSED OR IMPLIED,  
INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR  
A PARTICULAR PURPOSE.

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HER 01756



# HERCULES OFFSHORE CO.

INVOICE NO. \_\_\_\_\_

## MARINE REPAIR

MARINE OPERATIONS FACILITY

CUSTOMER P.O. \_\_\_\_\_

ORDER No. 4719

DATE	ORDER WRITTEN	ETA
	ARRIVAL	
	COMPLETION DATE	
	DEPARTURE DATE	
M/V <input checked="" type="checkbox"/> BARGE <input type="checkbox"/> NAME <u>Shrimp Boat - Uncle Dung</u> LOA <input type="checkbox"/> BIRTH <input type="checkbox"/>		
FOREMAN		
LAST PRODUCT		
GAS FREEING YES <input type="checkbox"/> NO <input type="checkbox"/> CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input type="checkbox"/>		
HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input type="checkbox"/>		
ON WAYS DATE: _____		
ON WAYS DATE: _____		

CUSTOMER	NAME	<u>Dung /</u>
	BILLING ADDRESS	
	CITY AND STATE	<u>Houston, Tex.</u>
	PHONE NUMBER	
WORK AUTHORIZED BY		SIGNATURE AUTHORIZED BY
<u>Renee</u>		
STOCK MATERIAL <input type="checkbox"/> YES <input type="checkbox"/> NO		
IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET		
OUTSIDE SERVICES <input type="checkbox"/> YES <input type="checkbox"/> NO		
IF YES, LIST		

### ITEM NUMBERS

- 1 Sandblast + Paint from boat water line to bottom.
- 2
- 3 Replace about 4 window panes
- 4 Do some welding on deck Western Seafood is to \$3500.00 pay lb.
- 5 Estimate
- 6 Per Renee @ W. Seafood
- 7
- 8 2.50 ea Paint Brushes + Marking tape 791 ea 4 rolls
- 9
- 10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

HER 01757